

# Radiation Therapy Offset Swing Door System

## Technical Specifications & Features

### Optional Safety Features

#### Partial Open Feature

Includes two press wall switches outside the linac vault sequenced at push to open/close and partial open. The interior set has a single press wall switch sequenced at push to open/close.

#### Presence Sensor Features

Installed on the inside of the treatment vault overhead. When the treatment room door is not in the full open or full closed position, the sensor will detect any object or person passing through the presence area and send a signal to the door operator to prevent the door from opening or closing.

#### Pressure Sensitive Tape Switches

Supplied and installed on each side of the swing door system in a T-Shape, i.e. one horizontal strip, one vertical strip. If more than 8 oz. of pressure is detected, the device will send a signal to the door operator to either stop the door, or stop and reverse the door.

### TECHNICAL SPECIFICATIONS

|                           |  |
|---------------------------|--|
| <b>Overall Dimensions</b> | Designed to meet each site's requirements                                    |
| <b>Manufacturing</b>      | 1/2" or 3/4" steel perimeter flat bar;<br>1/4" A-36 steel faceplates minimum |
| <b>Frame</b>              | 1/4" A-36 steel  |
| <b>Exterior Finish</b>    | Factory primed (others available)  |
| <b>Threshold</b>          | 1/4"th. steel over 1/4"th. lead  |
| <b>Hinges</b>             | Heavy-duty, cold-rolled or stainless steel, adjustable                       |
| <b>Compliance</b>         | Meets all regulatory, safety requirements                                    |

### SAFE SWINGING POWER DOOR OPERATING SPEEDS

#### Minimum Closing Time (seconds) to Latch Check\*

| Door Width | Door Weight (lbs.) |      |      |      |      |      |      |      |      |
|------------|--------------------|------|------|------|------|------|------|------|------|
|            | 500                | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 |
| 36         | 4.3                | 6.1  | 7.4  | 8.6  | 9.6  | 10.5 | 11.3 | 12.1 | 12.8 |
| 42         | 5                  | 7.1  | 8.7  | 10   | 11.2 | 12.2 | 13.2 | 14.1 | 15   |
| 48         | 5.7                | 8.1  | 9.9  | 11.4 | 12.8 | 14   | 15.1 | 16.1 | 17.1 |
| 54         | 6.4                | 9.1  | 11.1 | 12.8 | 14.4 | 15.7 | 17   | 18.2 | 19.3 |
| 60         | 7.1                | 10.1 | 12.4 | 14.3 | 16   | 17.5 | 18.9 | 20.2 | 21.4 |
| 66         | 7.9                | 11.1 | 13.6 | 15.7 | 17.6 | 19.2 | 20.8 | 22.2 | 23.6 |

Per ANSI 156.10. For weights and widths not listed,  $TIME = (DOOR WIDTH) \times (DOOR WEIGHT)^{1/2} / 1^{**}$

#### Minimum Opening Time (seconds) to Backcheck \*\*

\*\*shall be set to the same criteria as closing times

Creep Time (Latchcheck or Backcheck):

A door shall not close or open in the last 10 degrees in less than 1.5 seconds

Warning 1: Operating door at speeds faster than those established in ANSI 156.10 will void warranty and may damage operator. Any bodily injury caused by such action may result in those responsible for such actions being held liable.

#### Battery Back-up

Allows the door to be opened in the event of a power failure. The system includes a float charger to provide a trickle charge to the battery. All components are installed under the cover of the door operator with the exception of the end of the travel switch. To open a door in a power failure, the press to open button acts as a momentary contact switch. As long as the button is depressed, the door will continue to open.

#### Preventative Maintenance Service Contracts

Available upon request.

Other details regarding manufacturing, materials, installation requirements, structural specifications, custom options, financing, physics, or regulatory, etc., can be obtained from your NELCO representative. A list of references available upon request.

04v1